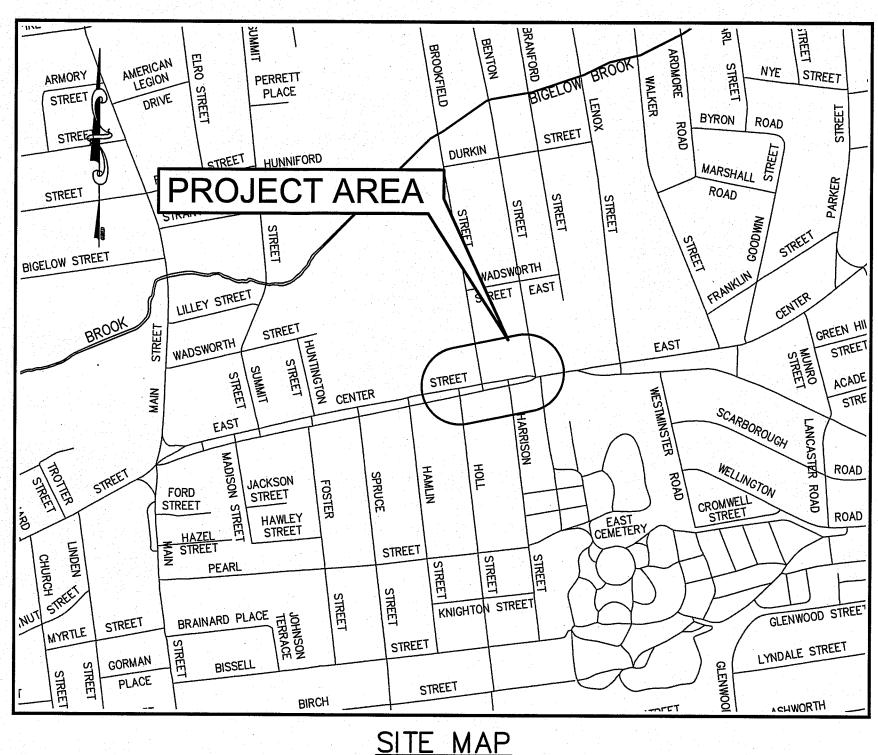


LOCATION MAP 1" = 1500'

TOWN OF MANCHESTER

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION





EAST CENTER STREET PEDESTRIAN IMPROVEMENTS AT HOLL STREET & AT BENTON STREET

COMMUNITY DEVELOPMENT BLOCK GRANT

MAY 2023

DESIGN STANDARD:

TOWN OF MANCHESTER PUBLIC IMPROVEMENT STANDARDS, EFFECTIVE DATE OCTOBER 31, 2020,

AS AMENDED

DATUMS:

HORIZONTAL DATUM: TOWN OF MANCHESTER CONTROL NETWORK

VERTICAL DATUM: TOWN OF MANCHESTER CONTROL NETWORK

(NAVD88 USING GEOID 96)

(NAD83 AS ESTABLISHED IN 1998)

STANDARD

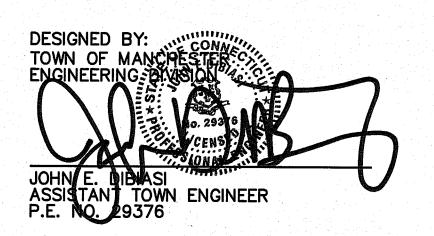
SPECIFICATIONS: SEE CONTRACT DOCUMENTS

DESIGN SCALES:

PLAN: 1'' = 20'OTHER SCALES AS NOTED

DRAWINGS SHEET NO. DESCRIPTION COVER SHEET GENERAL NOTES - RAMP DETAILS SITE PLAN - HOLL STREET CROSSING SITE PLAN - BENTON STREET CROSSING RRFB TRAFFIC SIGNAL PLAN - HOLL STREET CROSSING RRFB TRAFFIC SIGNAL PLAN - BENTON STREET CROSSING 7-9 CONSTRUCTION DETAILS

	STANDARD CTDOT DETAILS			
SHEET NO.	DESCRIPTION	DATE		
TR-STD_INDEX	TRAFFIC STANDARD SHEET INDEX	4/2017		
TR-1002_01	TRAFFIC CONTROL FOUNDATIONS	1/2014		
TR-1208_01	SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS 8/2018			
TR-1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS	6/2017		
TR-1210_04	PAVEMENT MARKING LINES AND SYMBOLS 8/2018			
TR-1210_08	PAVEMENT MARKINGS FOR NON FREEWAYS	8/2018		
TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS	8/2018		
TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	8/2018		
TR-GS_01	SIGN FACE SHEET ALUMINUM - R-SERIES TYPICAL SIGN DETAILS	10/2021		
TR-GS_02	SIGN FACE SHEET ALUMINUM - S&W-SERIES TYPICAL SIGN DETAILS	10/2021		
N/A	DISTRICT 1 ENCROACHMENT PERMIT PAVEMENT REPAIR (AS OF 4/24	/2023)		

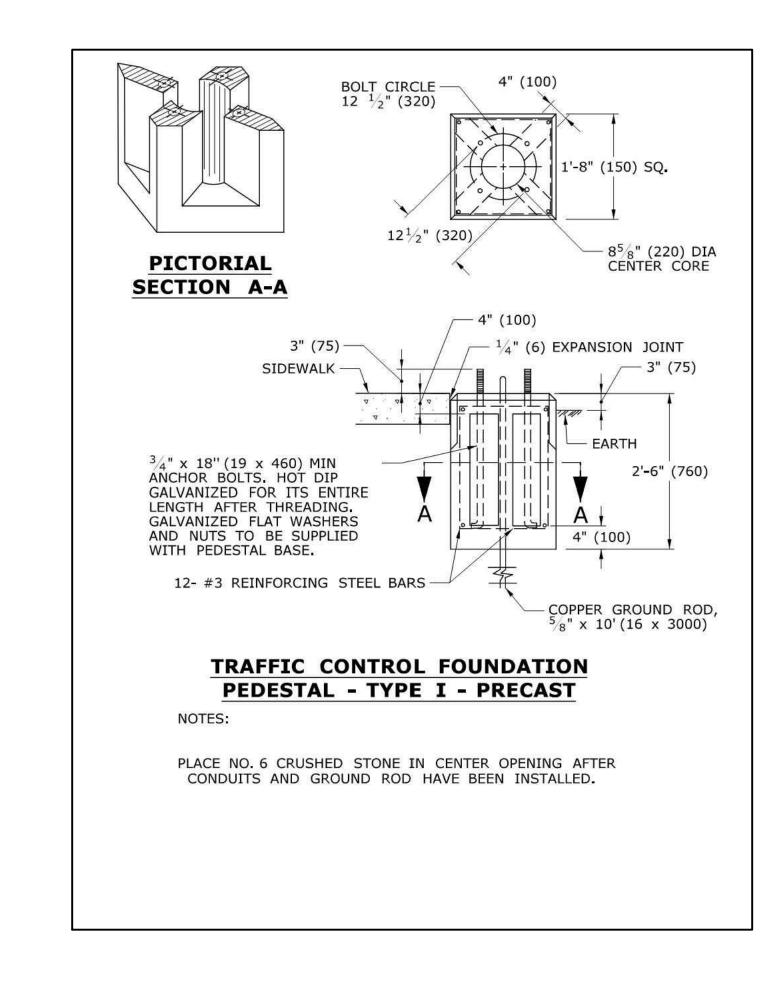


<u>GENERAL NOTES:</u>

- 1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "MANCHESTER PUBLIC IMPROVEMENT STANDARDS", EFFECTIVE OCTOBER 31, 2020, AS AMENDED AND THE STATE OF CONN. DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818, DATED 2020, INCLUDING ANY SUPPLEMENTS.
- 2. ALL ELEVATIONS ARE BASED ON THE TOWN OF MANCHESTER CONTROL NETWORK.
- IMPLEMENTING WORKER SAFETY AND HEALTH PROTOCOLS THAT ADDRESS COMPLIANCE WITH ALL RULES, LAWS AND REGULATIONS REGARDING SAFETY AND RISK OF EXPOSURE TO PHYSICAL AND CHEMICAL HAZARDS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL EMPLOYEES OF THE CONTRACTOR AND SUBCONTRACTORS ARE TO WEAR REFLECTIVE VESTS AND HARD HATS AT ALL TIMES WHEN ON THE PROJECT SITE.
- 4. A PRECONSTRUCTION MEETING WITH TOWN STAFF IS REQUIRED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
- 5. IT IS ANTICIPATED THAT IMPROVEMENTS IDENTIFIED ON THE PLANS AS BEING COMPLETED "BY OTHERS" WILL BE DONE PRIOR TO OR AT THE BEGINNING STAGES OF CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE CARE NOT TO DISTURB MONUMENTATION THAT MAY BE PRESENT BENEATH OR IN CLOSE PROXIMITY TO CONCRETE SIDEWALKS THROUGHOUT THE PROJECT AREA (PARTICULARLY NEAR INTERSECTIONS). IMMEDIATELY NOTIFY THE ENGINEER IF SUCH MONUMENTATION IS ENCOUNTERED.
- THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL REQUIRED PERMITS AND PAY ASSOCIATED FEES PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR MUST OBTAIN AN ENCROACHMENT PERMIT FROM THE STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, PRIOR TO BEGINNING WORK WITHIN THE U.S. ROUTES 6 & 44 (E CENTER STREET) RIGHT-OF-WAY AND SHALL BE RESPONSIBLE FOR ALL ASSOCIATED FEES AND REQUIREMENTS.
- THE CONTRACTOR SHALL CONFINE ALL OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE STREET LINE UNLESS SHOWN OTHERWISE ON THE PLANS.
- 9. THE CONTRACTOR SHALL MAINTAIN FOUR LANES OF TRAFFIC ON U.S. ROUTES 6 & 44 (E CENTER STREET) BETWEEN THE HOURS OF 7:00 A.M. AND 8:30 A.M. AND BETWEEN 4:30 P.M. AND 5:30 P.M. EVERY DAY. IT IS ANTICIPATED THE ROAD WILL REMAIN OPEN AT ALL TIMES SUBJECT TO THE FINAL DOT REQUIREMENTS TO BE DETERMINED DURING THE DOT ENCROACHMENT PERMIT REVIEW.
- 10. THE CONTRACTOR SHALL COMMIT SUFFICIENT RESOURCES TO THE PROJECT TO ENSURE THE PROJECT IS COMPLETED WITHIN THE ALLOTTED CONTRACT TIME. ONCE MOBILIZED, THE CONTRACTOR SHALL WORK CONTINUOUSLY ON THE PROJECT UNTIL COMPLETION. ANY UNAUTHORIZED VACATING OF THE JOBSITE IS SUBJECT TO PENALTIES DESCRIBED UNDER THE "LIQUIDATED DAMAGES" SECTION OF THE CONTRACT SPECIFICATIONS.
- 11. THE CONTRACTOR SHALL NOT STORE CONSTRUCTION EQUIPMENT OR MATERIALS WITHIN THE PUBLIC RIGHT-OF-WAY.
- 12. NO WORK SHALL COMMENCE UNTIL ALL CONSTRUCTION AREA SIGNS ARE IN PLACE.
- 13. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
- 14. ALL GRASSED AREAS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH TOPSOIL, FERTILIZED AND SEEDED AS PER THE SPECIFICATIONS. CONTRACTOR SHALL MAKE ALL EFFORTS TO MINIMIZE THE LIMITS OF DISTURBANCE AND ASSOCIATED RESTORATION THAT IS REQUIRED.
- 15. ANY DRIVEWAYS, SIDEWALKS, CURB AND LAWN AREAS LOCATED ON PRIVATE PROPERTY OR WITHIN THE RIGHT-OF-WAY THAT ARE IMPACTED DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AS IDENTIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE REQUIRED LIMITS OF SUCH RESTORATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. RESTORATION ON PRIVATE PROPERTY SHALL BE COMPLETED AS PROMPTLY AS PRACTICAL WITHIN THIRTY (30) CALENDAR DAYS OF COMPLETING WORK ON THE PROPERTY.
- 16. ACTUAL LIMITS OF CURB INSTALLATION AND DRIVEWAY RECONSTRUCTION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. THE CONTRACTOR SHALL AVOID IMPACTS TO EXISTING DRIVEWAYS WHEREVER POSSIBLE TO MINIMIZE REQUIRED RECONSTRUCTION LIMITS.
- 17. ALL SEDIMENT CONTROL SYSTEMS SHALL MEET THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" AS PREPARED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, LATEST REVISION. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION. MAINTENANCE AND REPAIR OF EROSION CONTROLS REQUIRED FOR THE PROJECT. ADDITIONAL EROSION CONTROLS SHALL BE INSTALLED BY THE CONTRACTOR FOR TEMPORARY STOCKPILING OF EXCAVATED MATERIAL AND WHERE DEEMED NECESSARY BY THE ENGINEER. EROSION CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL THE SITE IS STABILIZED AND THE ENGINEER APPROVES THEIR REMOVAL.
- 18. SILT SACKS SHALL BE INSTALLED IN ALL EXISTING CATCH BASINS WITHIN THE PROJECT AREA AND WHERE DIRECTED BY THE ENGINEER. SILT SACKS SHALL BE THE APPROPRIATE TYPE FOR CATCH BASINS WITH AND WITHOUT CURB INLETS.
- 19. HORIZONTAL AND VERTICAL LOCATIONS OF PROPOSED WORK MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
- 20. EXISTING INFORMATION SHOWN ON THESE PLANS WAS OBTAINED FROM TOWN OF MANCHESTER GIS DATA AND LIMITED FIELD SURVEY; AND THEREFORE, IS CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF CONDITIONS ENCOUNTERED IN THE FIELD ARE DIFFERENT THAN INFORMATION SHOWN ON THE PLANS. LIMITS OF NEW WORK SHALL BE STAKED IN THE FIELD PRIOR TO CONSTRUCTION WHERE APPROPRIATE.
- 21. THE EXISTENCE OF UTILITIES AND APPURTENANCES AS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. THE EXACT SIZE, LOCATION, TYPE, AND ELEVATION OF ALL UTILITIES WITHIN ALL WORK AREAS SHALL BE THOROUGHLY INVESTIGATED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "CALL-BEFORE-YOU-DIG" AT 1-800-922-4455 AND MUST HAVE ALL UTILITIES MARKED ON THE GROUND PRIOR TO THE START OF CONSTRUCTION.
- 22. THE QUANTITIES AS INDICATED IN THE CONTRACT DOCUMENTS ARE

- APPROXIMATE AND MAY NOT INDICATE THE ACTUAL QUANTITIES OF WORK REQUIRED. THE CONTRACTOR MUST VERIFY ALL QUANTITIES.
- 23. SURPLUS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL DISPOSE OF SURPLUS EXCAVATED MATERIAL IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.
- 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY HANDLING OF ALL STORMWATER RUNOFF DURING CONSTRUCTION. METHODS OF HANDLING RUNOFF SHALL BE APPROVED BY THE ENGINEER.
- 25. STREET CORNERS AND SIDEWALK RAMPS SHALL BE CONSTRUCTED TO PROVIDE POSITIVE DRAINAGE TOWARDS THE NEAREST CATCH BASIN TO PREVENT PONDING OF STORMWATER. SIDEWALK RAMPS MUST BE INSTALLED TO MATCH PROPOSED GUTTER ELEVATIONS WHICH SHOULD PROVIDE 4"-5" OF REVEAL ON EXISTING GRANITE CURB ADJACENT TO RAMPS.
- 26. ALL SIDEWALKS, DRIVEWAY APRONS AND SIDEWALK RAMPS SHALL BE CONSTRUCTED TO PROVIDE HANDICAPPED ACCESSIBILITY IN ACCORDANCE WITH THE CONNECTICUT BUILDING CODE.
- 27. ALL CONCRETE SIDEWALKS SHALL MATCH THE WIDTH AND ELEVATION OF EXISTING, ADJACENT CONCRETE SIDEWALKS. IN GENERAL, ALL CONCRETE SIDEWALKS WITHIN THE RIGHT-OF-WAY ARE TO BE 5" THICK AND 5' WIDE.
- 28. CONCRETE SIDEWALK RAMPS ARE TO MATCH EXISTING CURB RADII UNLESS OTHERWISE NOTED AND HAVE A 5' MINIMUM RADIUS UNLESS NOTED OTHERWISE. THE ENGINEER WILL PROVIDE STAKES AS REQUIRED DURING CONSTRUCTION FOR LOCATIONS WITH RADII THAT VARY FROM EXISTING.
- 29. ALL CONCRETE SIDEWALK RAMPS SHALL BE INSTALLED WITH DETECTABLE WARNING TILES.
- 30. WHERE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE SLEEVES FOR ALL SIGNS LOCATED WITHIN THE LIMITS OF PROPOSED CONCRETE SIDEWALK.
- 31. FOR SIDEWALKS AND RAMPS, A CLEARANCE OF 48" (36" MINIMUM) MUST BE PROVIDED BETWEEN ANY OBSTRUCTION AND THE BACK EDGE OF THE SIDEWALK AND RAMP OR FACE OF CURB.
- 32. ANY CLEARING OF BRUSH WITHIN PROPOSED GRADING LIMITS WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE GENERAL COST OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY TREES REQUIRING REMOVAL PRIOR TO CONSTRUCTION, SUCH WORK SHALL BE COMPLETED "BY OTHERS".
- 33. THE CONTRACTOR SHALL PERFORM ALL THREE (3) TEST PITS IDENTIFIED ON THE PLANS WITHIN 14 CALENDAR DAYS OF RECEIVING THE NOTICE TO PROCEED. CONTACT THE ENGINEERING DIVISION AT (860) 647-5211 AT LEAST 48 HOURS BEFORE PERFORMING TEST PITS. TEST PIT DATA THAT INCLUDES ELEVATIONS, LOCATIONS, DIMENSIONS AND MATERIALS OF ASSOCIATED UTILITIES MUST BE PROVIDED TO THE TOWN IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS IMMEDIATELY AFTER COMPLETION OF FIELD INVESTIGATIONS. HORIZONTAL LOCATION OF EXISTING UTILITIES MUST BE IDENTIFIED BY FIELD SURVEY OR A MINIMUM OF TWO (2) TIES FROM BUILDING OR OTHER FIXED PHYSICAL FEATURE SHOWN ON THE PLANS AND VERTICAL LOCATIONS MUST BE DETERMINED BASED ON PROJECT BENCHMARK ELEVATIONS. ADDITIONAL TEST PITS MAY BE REQUIRED AND HORIZONTAL AND VERTICAL LOCATIONS OF PROPOSED WORK MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
- 34. THE TOWN IS IN THE PROCESS OF SECURING RIGHTS FROM PRIVATE PROPERTY OWNERS TO ENTER IMPACTED PROPERTIES TO COMPLETE WORK SHOWN ON THE CONTRACT PLANS. THE CONTRACTOR SHALL CONFIRM APPROVALS HAVE BEEN OBTAINED BY THE TOWN PRIOR TO PERFORMING WORK ON PRIVATE PROPERTY.
- 35. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER OF #167 E CENTER STREET; #193 E CENTER STREET; AND #220 E CENTER STREET, OR THEIR REPRESENTATIVES DURING CONSTRUCTION TO SCHEDULE WORK TO MINIMIZE IMPACTS TO OPERATIONS AT THEIR SITES.
- 36. ALL CONCRETE AND TEMPORARY BITUMINOUS CONCRETE SIDEWALKS SHALL MATCH THE WIDTH AND ELEVATION OF EXISTING, ADJACENT CONCRETE SIDEWALKS.

TEST PITS				
TEST PIT #	LOCATION	UTILITY		
1	#193 E CENTER ST	TELE DUCT BANK		
2	#192 E CENTER ST	TELE DUCT BANK		
3	#220 E CENTER ST (CEMETERY)	TELE DUCT BANK		





TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 494 MAIN STREET - P.O. BOX 191

MANCHESTER, CT 06045-0191

→ → = WETLANDS BOUNDARY T = LIGHT POLE = CONIFEROUS TREE = DECIDUOUS TREE ∞ = STONE WALL S = SANITARY MANHOLE ---- = STOCKADE FENCE (D) = DRAINAGE MANHOLI x-x-x = WIRE FENCE △ = CULVERT END = RAILROAD TRACKS CS = CURB STOP W = WATER VALVE = CONCRETE MONUMENT BV = BUTTERFLY VALV ■ = GRANITE MONUMENT BO = BLOW OFF O = IRON PIPE o = SIGN o o = DOUBLE POST SIGN = CONTROL POINT M = MAIL BOX

> PROJECT NUMBER 2020103

= GAS GATE

T = TELEPHONE BOX

⊕ CATV TUBE

= DRILL HOLE

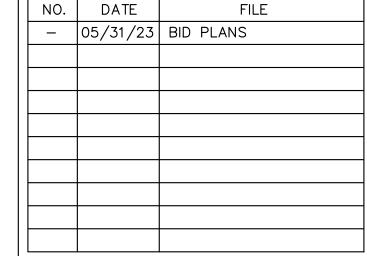
= UTILITY POLE WITH LIGH

O = TRAFFIC SPAN POLE

E = ELECTRIC BOX

FILENAME

2020103-DETAILS.DWG DATE FILE



DRAWN BY: JD CHECKED BY: JD RELEASED BY: JL

DRAWING SCALE HORIZONTAL: 1'' = 20' VERTICAL: ---OR AS NOTED 20 10 0

HORIZONTAL: NAD83 VERTICAL: NAVD88

GRAPHIC SCALE

PROJECT LOCATION

EAST CENTER STREET MANCHESTER, CT

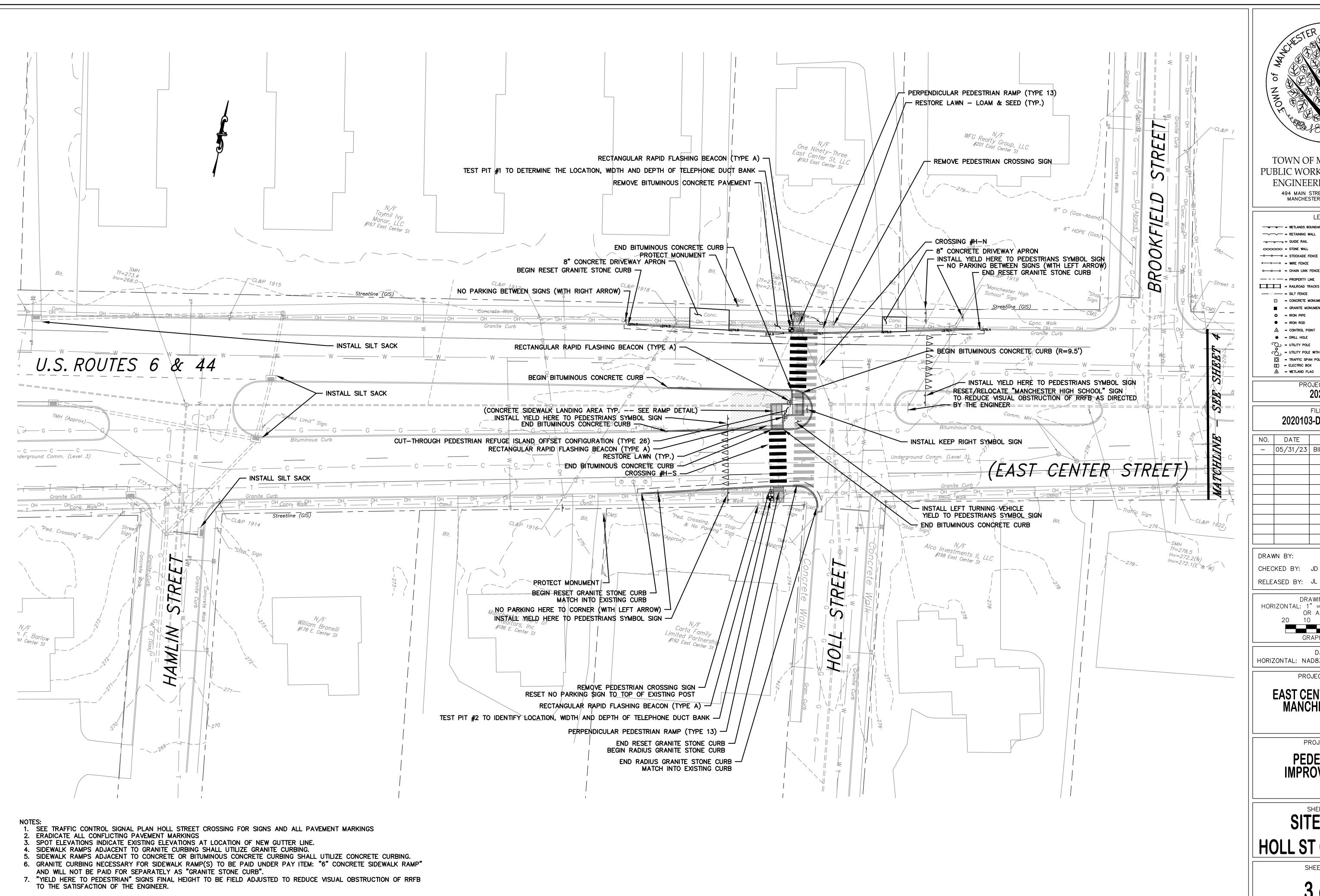
PROJECT TITLE

PEDESTRIAN IMPROVEMENTS

SHEET TITLE

GENERAL NOTES

SHEET NUMBER





TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 494 MAIN STREET - P.O. BOX 191 MANCHESTER, CT 06045-0191

- = WETLANDS BOUNDARY	
= RETAINING WALL	= CONIFEROUS
- = GUIDE RAIL	= DECIDUOUS 1
C = STONE WALL	S = SANITARY MA
-= STOCKADE FENCE	D = DRAINAGE MA
× = WIRE FENCE	= CATCH BASIN
• = CHAIN LINK FENCE	△ = CULVERT END

LEGEND

₩ = HYDRANT O = BLOW OFF o = SIGN o o = DOUBLE POST SIGN

 = CONTROL POINT M = MAIL BOX = UTILITY POLE WITH LIGHT O = GAS GATE O = TRAFFIC SPAN POLE T = TELEPHONE BOX E = ELECTRIC BOX = WETLAND FLAG ⊕ CATV TUBE

> PROJECT NUMBER 2020103

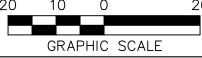
FILENAME

2020103-DESIGN3.DWG

NO.	DATE	FILE
_	05/31/23	BID PLANS

DRAWN BY: CHECKED BY: JD

DRAWING SCALE HORIZONTAL: 1" = 20' VERTICAL: ---OR AS NOTED



DATUM HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION

EAST CENTER STREET MANCHESTER, CT

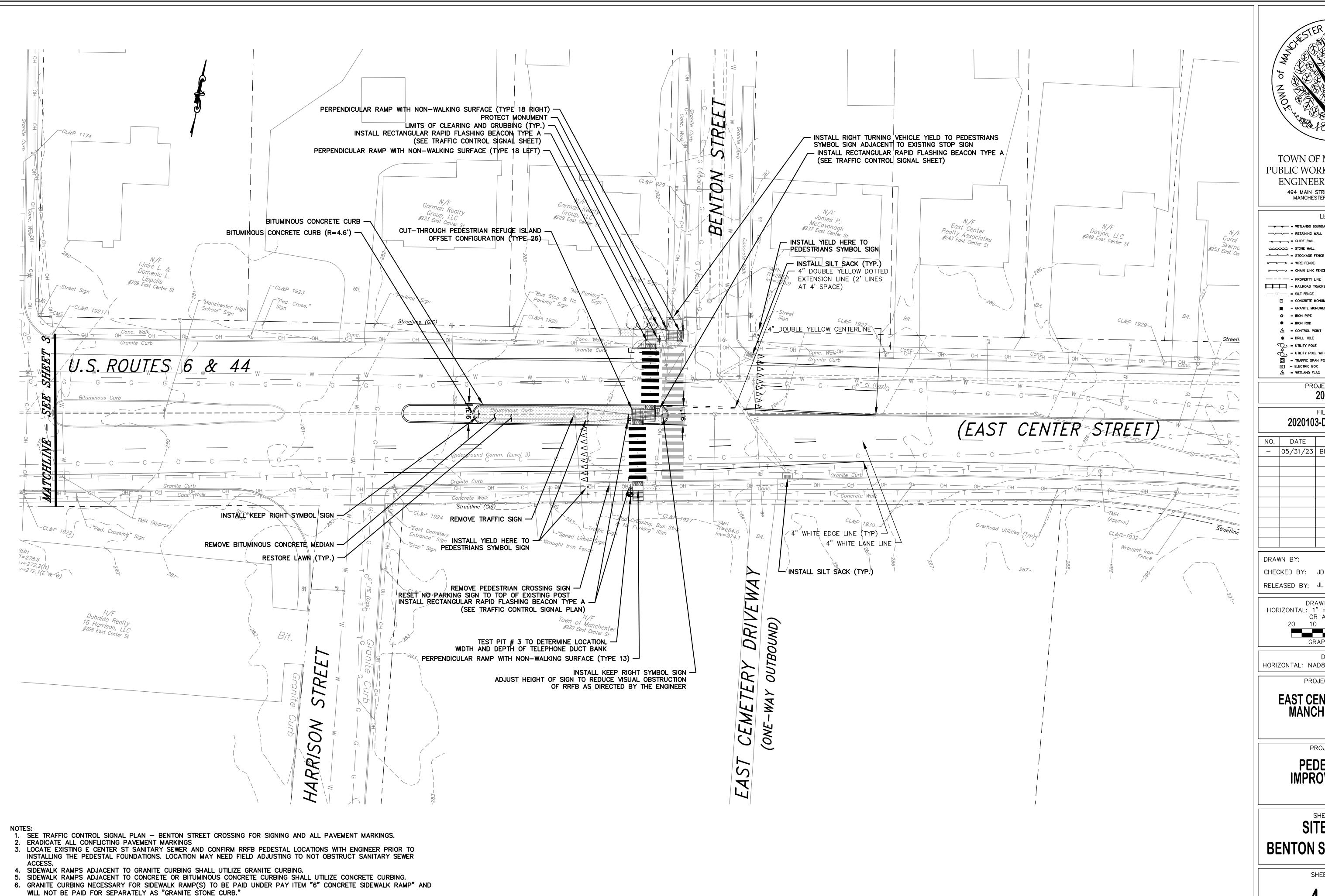
PROJECT TITLE

PEDESTRIAN IMPROVEMENTS

SHEET TITLE SITE PLAN HOLL ST CROSSING

SHEET NUMBER

3 of 9



7. "YIELD HERE TO PEDESTRIAN" SIGNS FINAL HEIGHT TO BE FIELD ADJUSTED TO REDUCE VISUAL OBSTRUCTION OF RRFB TO

THE SATISFACTION OF THE ENGINEER.



TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 494 MAIN STREET - P.O. BOX 191 MANCHESTER, CT 06045-0191

LEGEND

S = SANITARY MANHOLE --- = STOCKADE FENCE

---- = PROPERTY LINE ₩ = HYDRANT = RAILROAD TRACKS WV = WATER VALVE O = BLOW OFF o = SIGN o o = DOUBLE POST SIGN

M = MAIL BOX = DRILL HOLE = UTILITY POLE WITH LIGH = GAS GATE O = TRAFFIC SPAN POLE T = TELEPHONE BOX E = ELECTRIC BOX = WETLAND FLAG ⊕ CATV TUBE

> PROJECT NUMBER 2020103

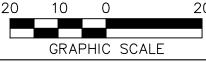
FILENAME

2020103-DESIGN2.DWG

NO.	DATE	FILE
_	05/31/23	BID PLANS

DRAWN BY: CHECKED BY: JD

DRAWING SCALE HORIZONTAL: 1" = 20' VERTICAL: ---OR AS NOTED



DATUM HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION

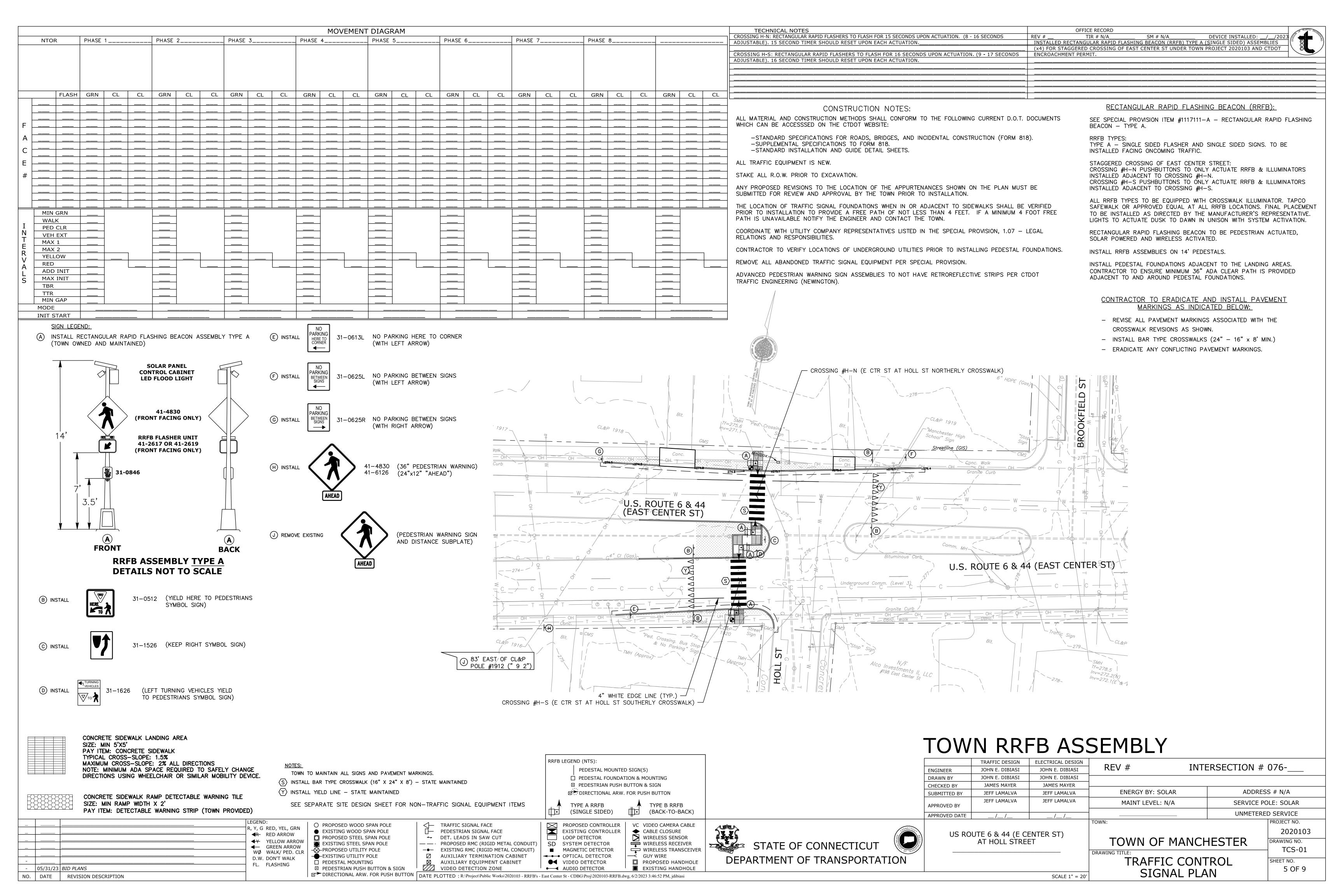
EAST CENTER STREET MANCHESTER, CT

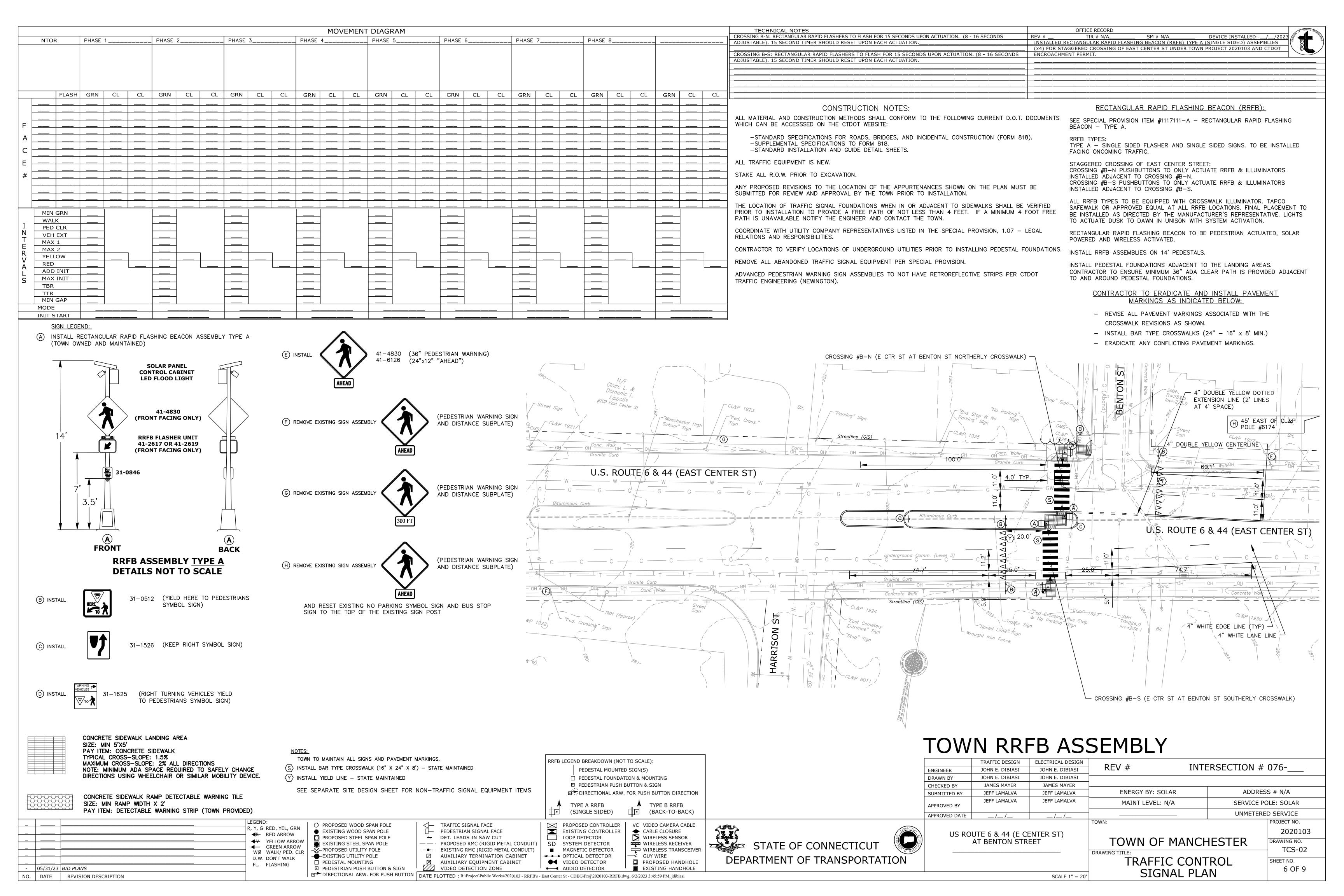
PROJECT TITLE

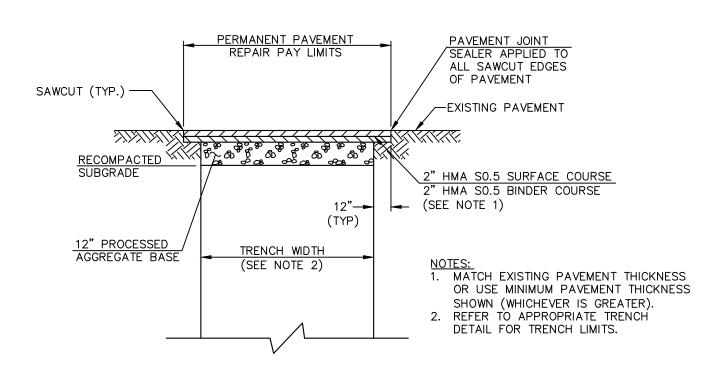
PEDESTRIAN IMPROVEMENTS

SHEET TITLE SITE PLAN BENTON ST CROSSING

SHEET NUMBER

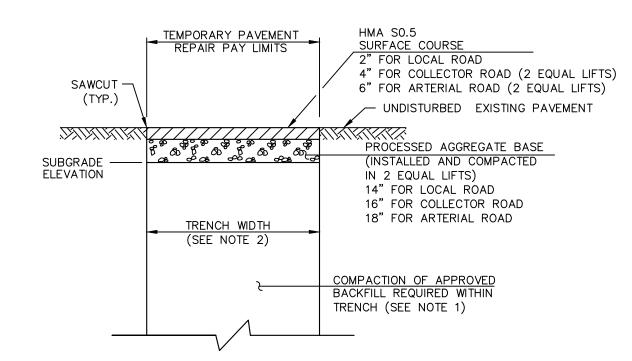






PERMANENT PAVEMENT REPAIR (LOCAL ROAD)

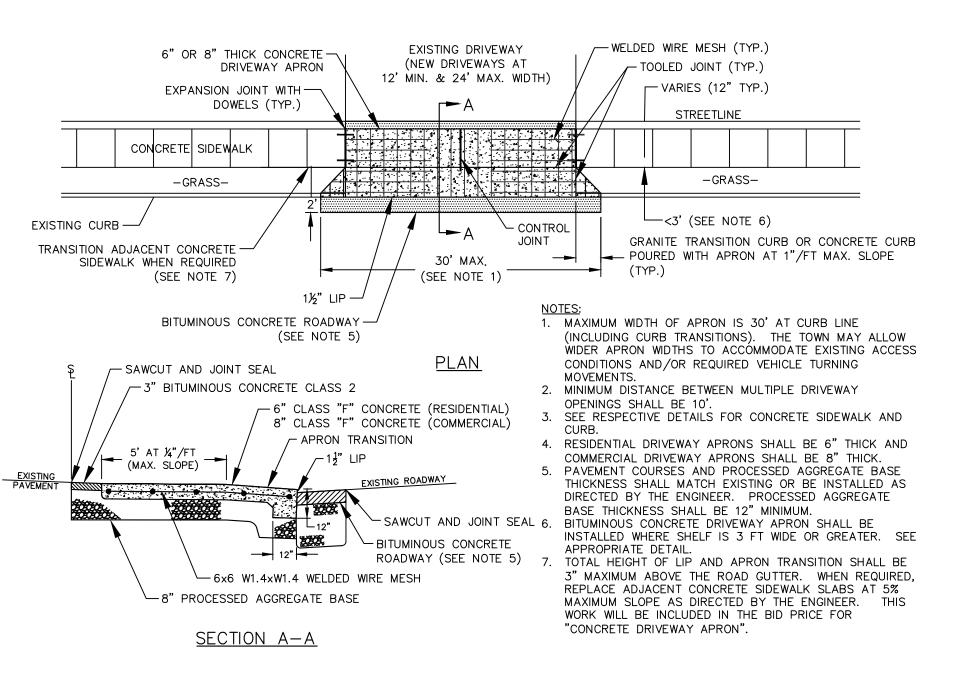
NOT TO SCALE



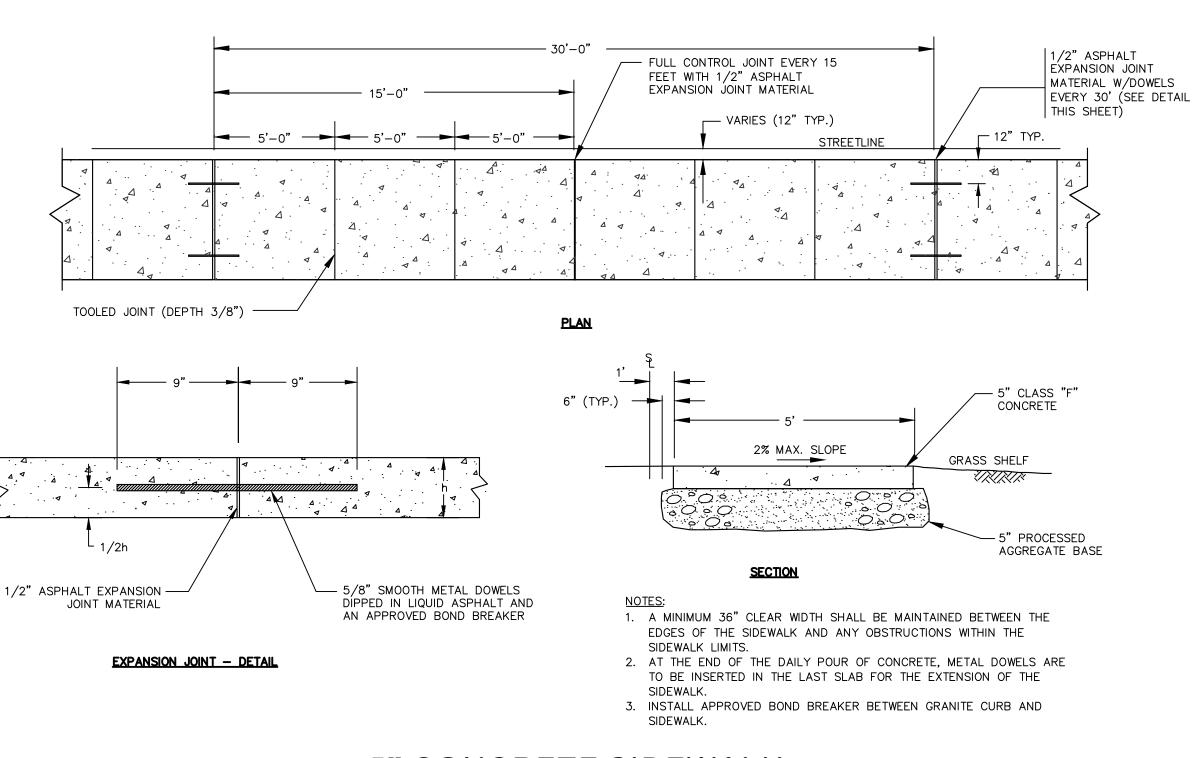
NOTES:

1. WHEN REQUESTED BY THE TOWN, THE CONTRACTOR SHALL VERIFY AND SUBMIT TEST RESULTS CONFIRMING THAT COMPACTION OF THE TOTAL TRENCH AREA MEETS TOWN STANDARDS FOR 95% COMPACTED DENSITY. REFER TO APPROPRIATE TRENCH DETAIL FOR TRENCH LIMITS.

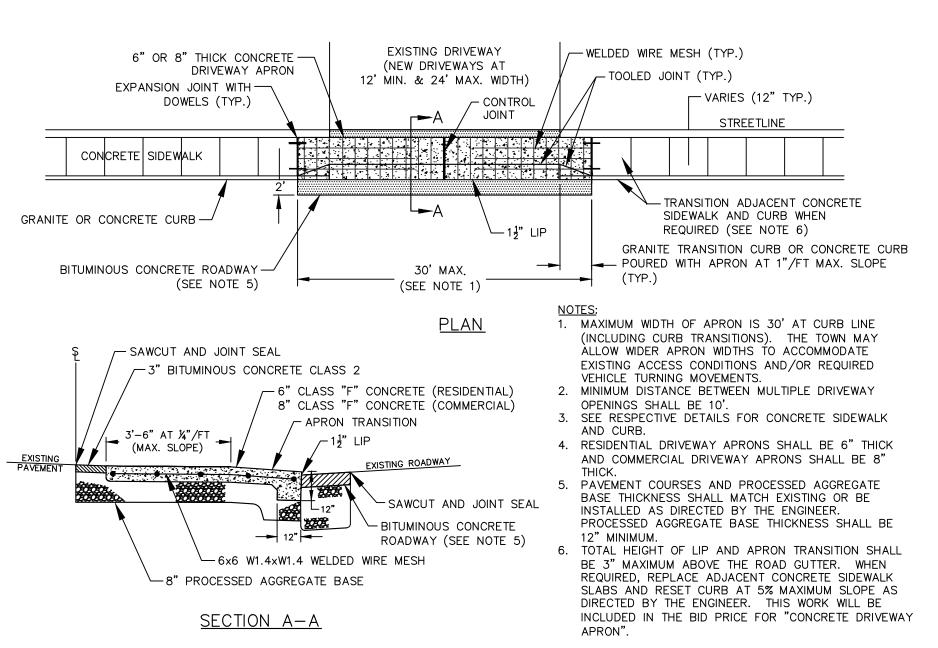
TEMPORARY PAVEMENT REPAIR NOT TO SCALE



CONCRETE DRIVEWAY APRON NOT TO SCALE

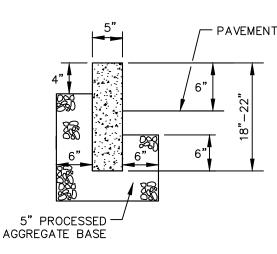


5" CONCRETE SIDEWALK NOT TO SCALE



CONCRETE DRIVEWAY APRON

NOT TO SCALE



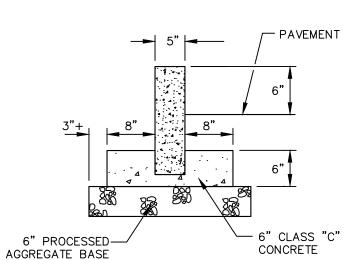
GRANITE CURB NOTES:

BE SET IN 6" OF CONCRETE.

- . MINIMUM LENGTH OF GRANITE CURB IS 4'-0". 2. GRANITE CURB SHALL BE FINISH-SAWN TOP AND SPLIT FACE JOINTED. 3. ALL GRANITE CURB JOINTS SHALL BE SET IN 6" OF CLASS "C" CONCRETE AND MORTAR SHALL BE APPLIED ALONG THE HEIGHT AND
- WIDTH OF ALL ABUTTING CURB FACES. 4. GRANITE CURB WITH A RADIUS OF 100' OR LESS SHALL BE BUILT OF
- RADIUS GRANITE CURB AND SET IN 6" OF CONCRETE ALONG THE
- ENTIRE LENGTH.
- 5. STRAIGHT AND RADIUS GRANITE CURB SHALL BE USED FOR TRANSITION CURB AT DRIVEWAYS AND SIDEWALK RAMPS WHERE APPLICABLE. 6. THE JOINTS OF RESET GRANITE STONE CURB SHALL

GRANITE STONE CURB

(PAY ITEMS: "GRANITE STONE CURB" AND "RESET GRANITE STONE CURB") NOT TO SCALE

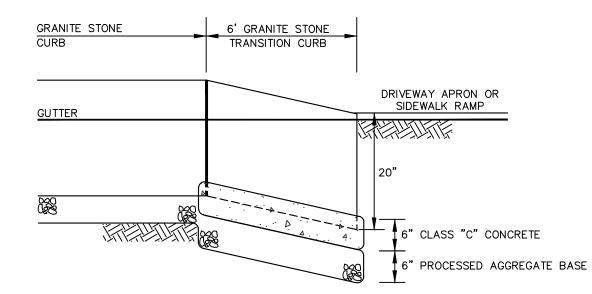


GRANITE CURB NOTES:

- 1. MINIMUM LENGTH OF GRANITE CURB IS 4'-0". 2. GRANITE CURB SHALL BE FINISH-SAWN TOP AND SPLIT
- FACE JOINTED. 3. ALL GRANITE CURB JOINTS SHALL BE SET IN 6" OF CLASS "C" CONCRETE AND MORTAR SHALL BE APPLIED ALONG
- THE HEIGHT AND WIDTH OF ALL ABUTTING CURB FACES.
- 4. GRANITE CURB WITH A RADIUS OF 100' OR LESS SHALL BE BUILT OF RADIUS GRANITE CURB AND SET IN 6" OF CONCRETE ALONG THE ENTIRE LENGTH.
- 5. STRAIGHT AND RADIUS GRANITE CURB SHALL BE USED FOR TRANSITION CURB AT DRIVEWAYS AND SIDEWALK RAMPS WHERE APPLICABLE.

RADIUS GRANITE CURB

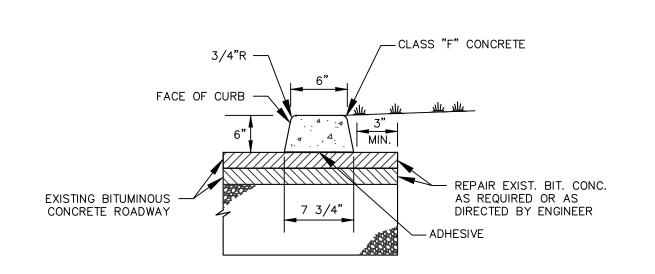
NOT TO SCALE



GRANITE STONE TRANSITION CURB, CLASS "C" CONCRETE, MORTAR AT JOINTS AND PROCESSED AGGREGATE BASE ARE INCLUDED IN THE UNIT PRICE BIDS FOR "CONCRETE DRIVEWAY APRON" AND "CONCRETE SIDEWALK AND CONCRETE SIDEWALK RAMPS".

GRANITE STONE TRANSITION CURB

NOT TO SCALE



EXTRUDED CONCRETE CURB (EXISTING PAVEMENT)



TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT **ENGINEERING DIVISION** 494 MAIN STREET - P.O. BOX 191

MANCHESTER, CT 06045-0191

LEGEN	ND
= WETLANDS BOUNDARY	☆ = LIGHT POLE
= RETAINING WALL	= CONIFEROUS TREE
- o o o = GUIDE RAIL	= DECIDUOUS TREE
STONE WALL	S = SANITARY MANHO
	= DRAINAGE MANHO
xx = WIRE FENCE	= CATCH BASIN
oo = CHAIN LINK FENCE	
	💥 = HYDRANT
= RAILROAD TRACKS	CS = CURB STOP
	WY = WATER VALVE
= CONCRETE MONUMENT	· ·
■ = GRANITE MONUMENT	BV = BUTTERFLY VALVE
O = IRON PIPE	O = Brow off
- IPON POD	o = SIGN

o o = DOUBLE POST SIGN

= GAS GATE

T = TELEPHONE BOX

⊕ CATV TUBE

M = MAIL BOX

 = WETLAND FLAG PROJECT NUMBER 2020103

= UTILITY POLE WITH LIGH

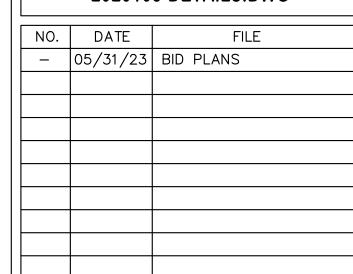
O = TRAFFIC SPAN POLE

E = ELECTRIC BOX

= CONTROL POINT

= DRILL HOLE

FILENAME **2020103-DETAILS.DWG**



DRAWN BY: JD CHECKED BY: JD RELEASED BY: JL

DRAWING SCALE HORIZONTAL: 1" = 20' VERTICAL: ---OR AS NOTED 10 0 GRAPHIC SCALE

DATUM HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION

EAST CENTER STREET MANCHESTER, CT

PROJECT TITLE

PEDESTRIAN IMPROVEMENTS

SHEET TITLE

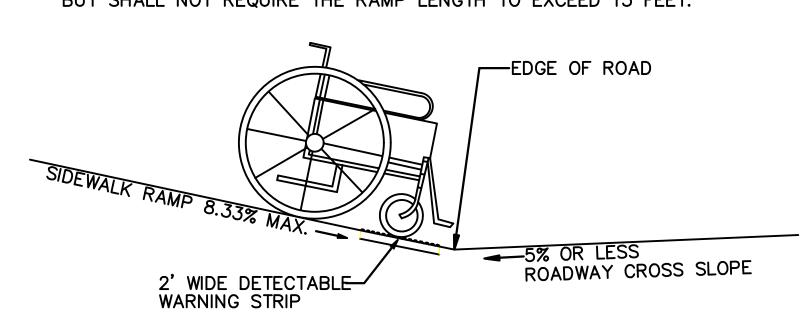
DETAILS

SHEET NUMBER

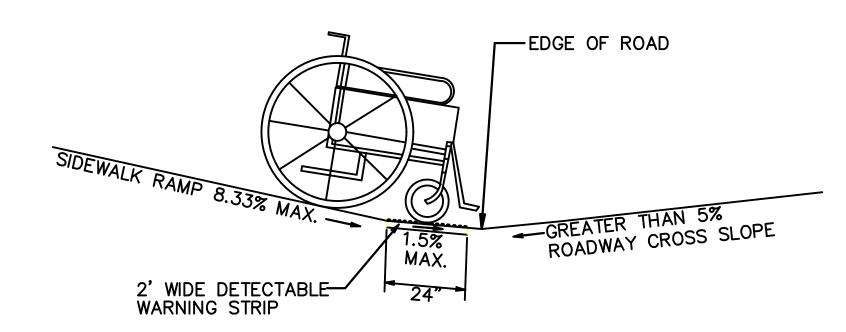
7 of 9

GENERAL NOTES:

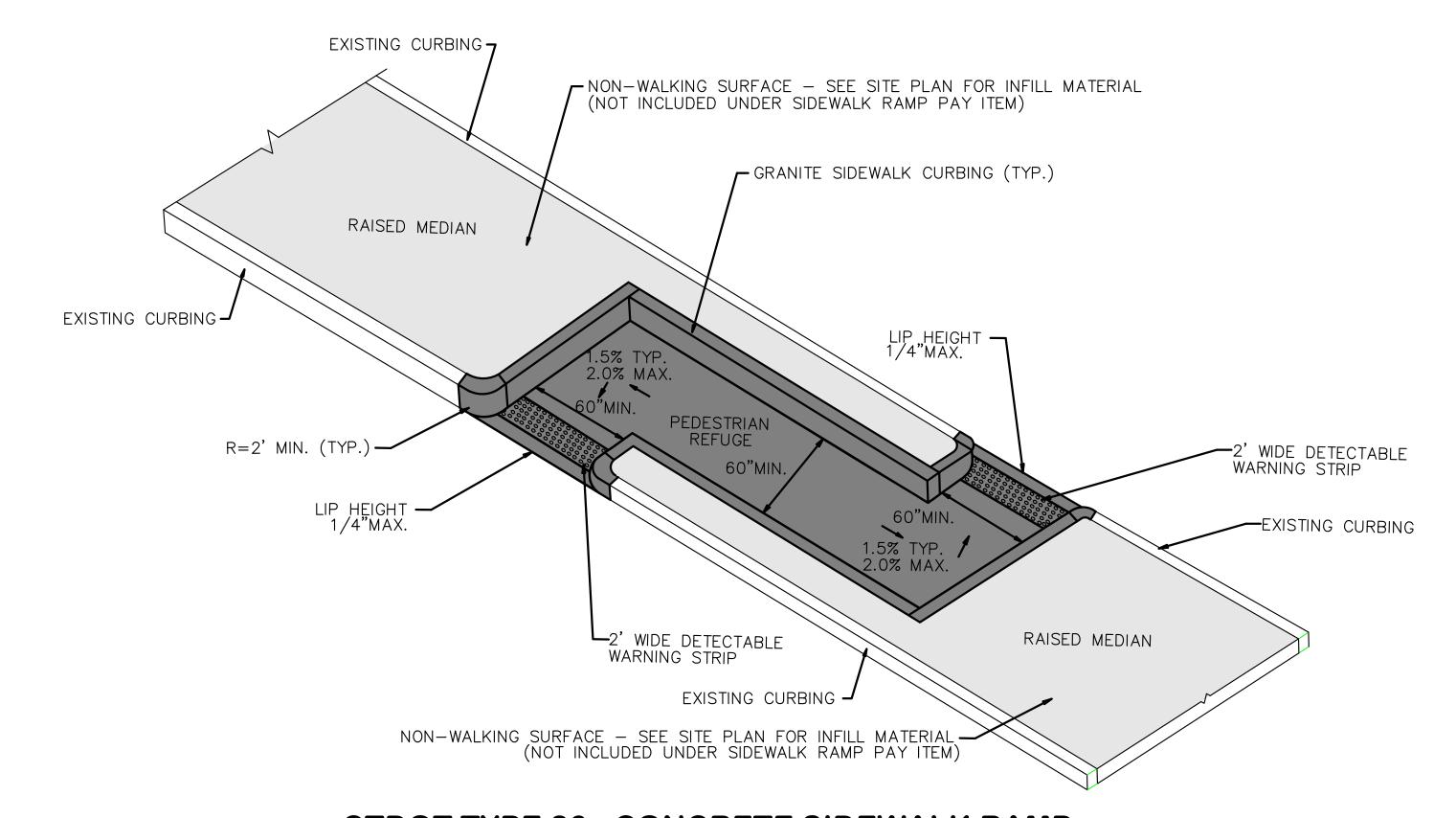
- 1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
- 2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4 INCH.
- 3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
- 4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF 5% OR LESS



SIDEWALK RAMP GRADE AT ROADWAY CROSS SLOPE OF GREATER THAN 5%



CTDOT TYPE 26 - CONCRETE SIDEWALK RAMP

(CUT-THROUGH PEDESTRIAN REFUGE ISLAND - OFFSET CONFIGURATION) NOT TO SCALE

MESH REINFORCEMENT - RAMP ELEVATION AT GUTTER LINE TO BE FLUSH WITH ROADWAY PAVEMENT MATCH ROADWAY PROFILE SLOPE-BITUMINOUS CONCRETE ROADWAY (2' WIDE, SEE NOTE 1) -RESTORE DISTURBED AREAS AS REQUIRED 8" CLASS "F" CONCRETE -5" PROCESSED AGGREGATE BASE TYPICAL SECTION OF SIDEWALK LANDING AREA AT Q NOTES:

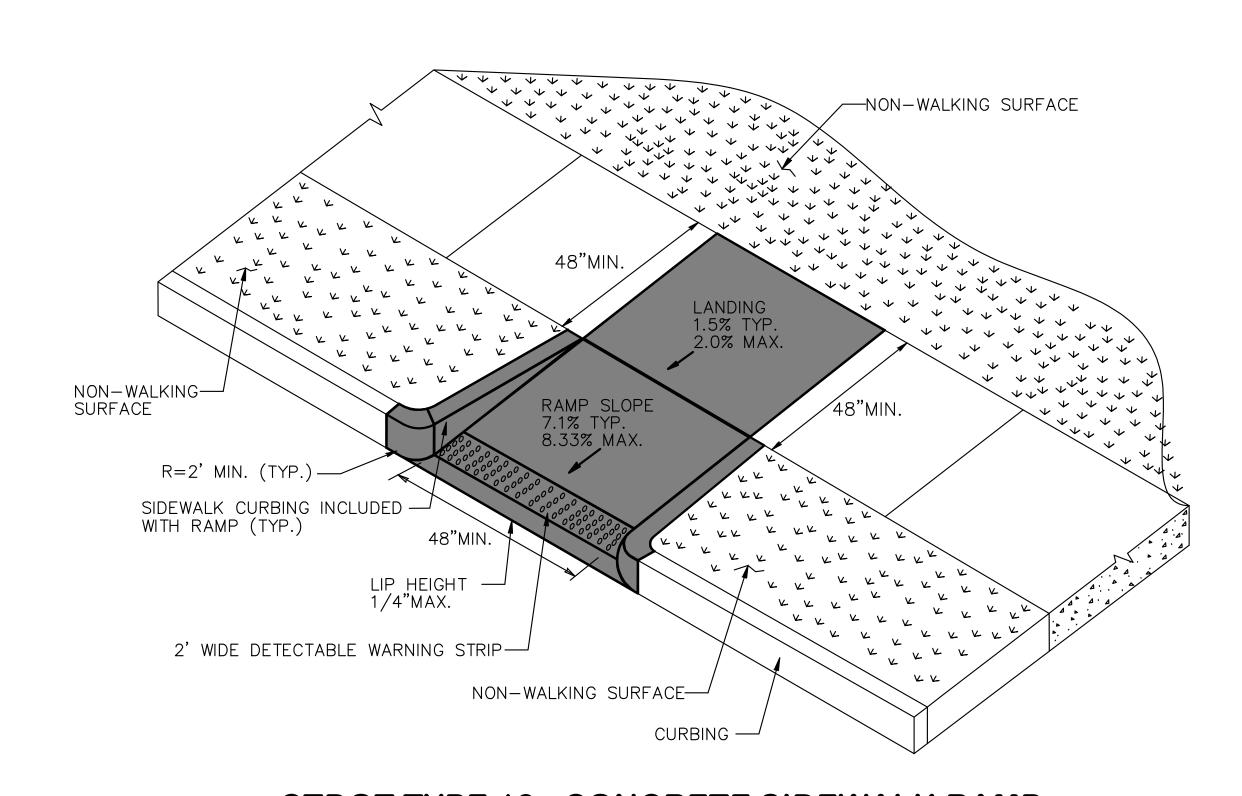
1. PAVEMENT COURSES AND PROCESSED AGGREGATE
BASE THICKNESS SHALL MATCH EXISTING OR BE

1. PAGE DIRECTED BY THE TOWN. PROCESS INSTALLED AS DIRECTED BY THE TOWN. PROCESSED AGGREGATE BASE THICKNESS SHALL BE 12" MINIMUM.

2. REFER TO CONCRETE SIDEWALK RAMP NOTES FOR RAMP WARPING DETAIL ADDITIONAL INFORMATION. 3. IN GENERAL, GRANITE CURB TRANSITIONS ARE TO BE . TRANSITION SIDEWALK RAMP TO MATCH ROADWAY PROFILE AS GRADUALLY AS POSSIBLE. DO NOT EXCEED 3 % PER FOOT CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE. INSTALLED WHEN RAMP IS ADJACENT TO GRANITE CURB AND CONCRETE CURB TRANSITIONS ARE TO BE INSTALLED WHEN RAMP IS ADJACENT TO BITUMINOUS CONCRETE LIP CURB OR CONCRETE CURB. A MINIMUM LENGTH OF 3' SHALL BE USED FOR CURB TRANSITIONS.

4. IF GRANITE CURB TRANSITIONS ARE INSTALLED, THE CONCRETE RAMP LANDING MAY BE POURED TO THE 2. COMPLETE TRANSITION TO ROADWAY PROFILE BEHIND DETECTABLE WARNING SURFACE. REQUIRED RADIUS AS DIRECTED BY THE ENGINEER.

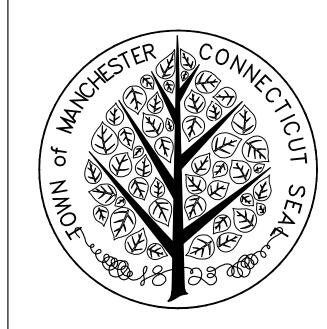
SIDEWALK RAMP NOTES (CTDOT GUIDE SHEETS/TOWN OF MANCHESTER)



CTDOT TYPE 13 - CONCRETE SIDEWALK RAMP

(PERPENDICULAR RAMP WITH NON-WALKING SURFACE)

NOT TO SCALE



-6 X 6 - W1.4XW1.4 WIRE

5. LANDING AREAS SHALL NOT EXCEED 2% CROSS-SLOPE

AS MEASURED IN ANY DIRECTION.

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∞ = STONE WALL --- = STOCKADE FENCE ×----× = WIRE FENCE ₩ = HYDRANT = RAILROAD TRACKS

■ = GRANITE MONUMENT O = BLOW OFF O = IRON PIPE o = SIGN o o = DOUBLE POST SIGN M = MAIL BOX

 = DRILL HOLE = CONTROLLER CABIN = UTILITY POLE WITH LIGH O = TRAFFIC SPAN POLE E = ELECTRIC BOX = WETLAND FLAG ⊕ CATV TUBE

> PROJECT NUMBER 2020103

FILENAME

2020103-DETAILS.DWG

NO.	DATE	FILE
_	05/31/23	BID PLANS

DRAWN BY: JD CHECKED BY: JD RELEASED BY: JL

DRAWING SCALE HORIZONTAL: 1" = 20' VERTICAL: --OR AS NOTED 20 10 0

HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION

GRAPHIC SCALE

EAST CENTER STREET MANCHESTER, CT

PROJECT TITLE

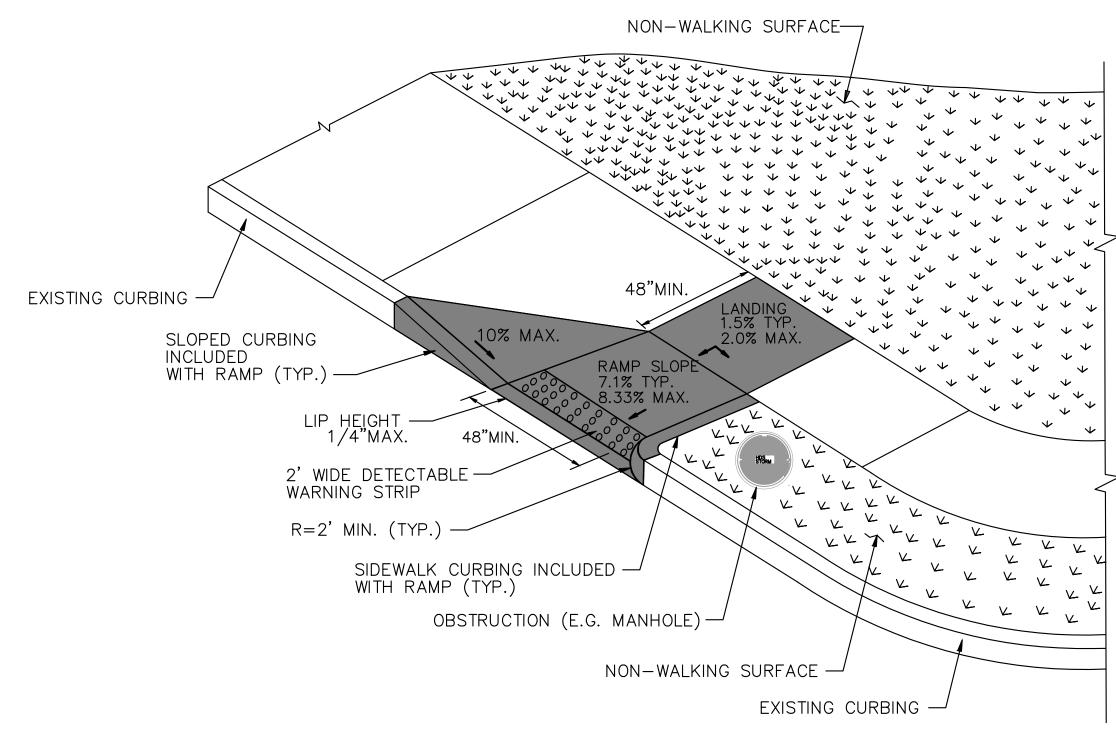
PEDESTRIAN IMPROVEMENTS

SHEET TITLE

DETAILS

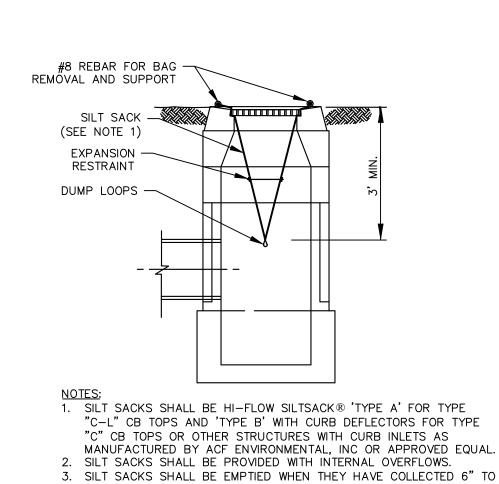
SHEET NUMBER

8 of 9



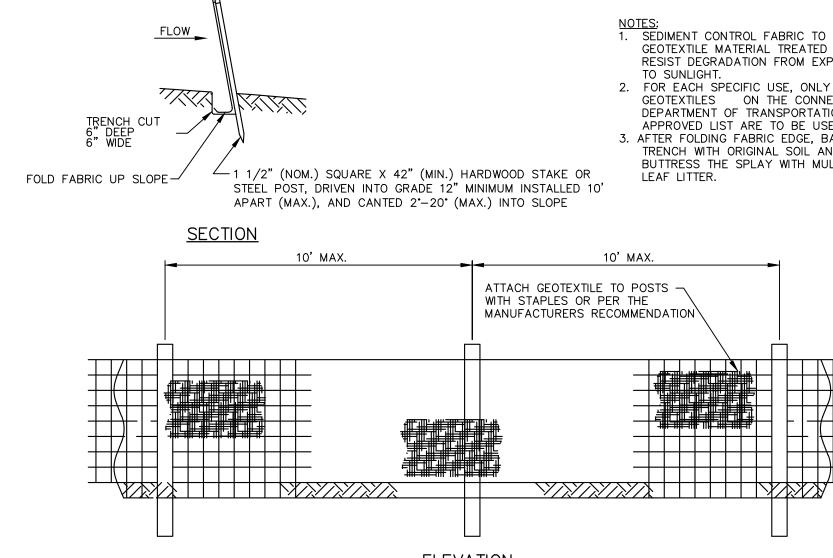
CTDOT TYPE 18 LEFT - CONCRETE SIDEWALK RAMP (PERPENDICULAR RAMP WITH NON-WALKING SURFACE)

NOT TO SCALE



12" OF SEDIMENT. INSPECT EVERY 1 TO 2 WEEKS AND AFTER EVERY MAJOR RAINFALL EVENT. SILT SACK

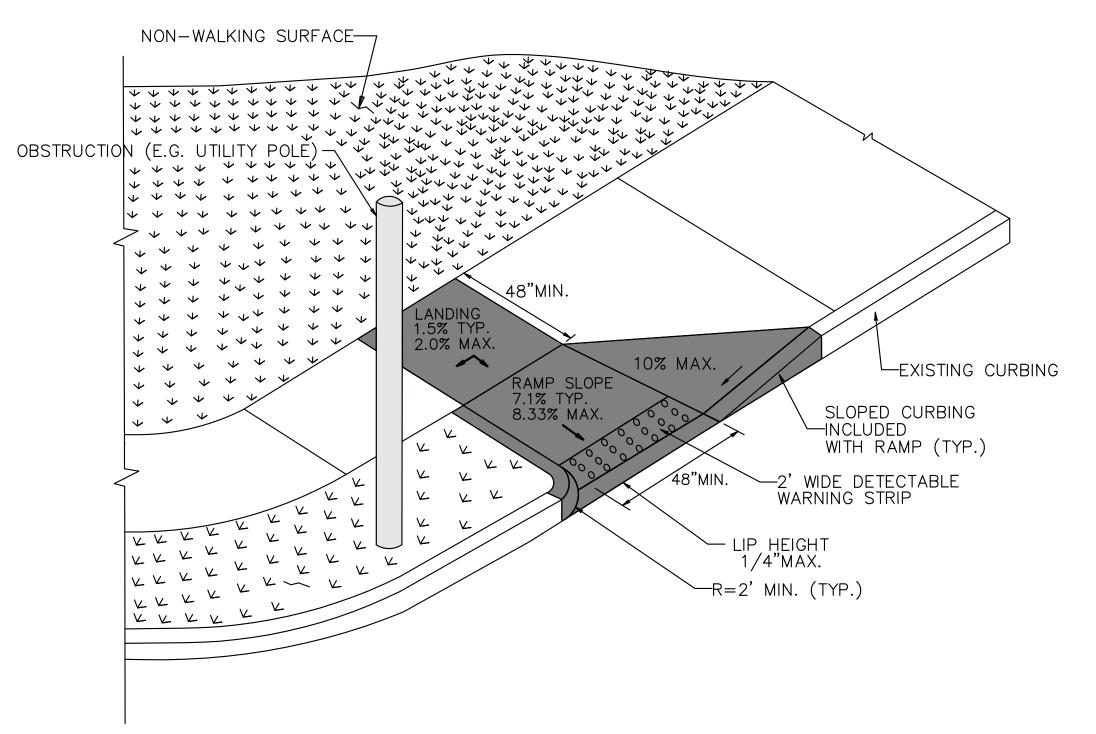
NOT TO SCALE



NOTES:

1. SEDIMENT CONTROL FABRIC TO BE A
GEOTEXTILE MATERIAL TREATED TO
RESIST DEGRADATION FROM EXPOSURE 2. FOR EACH SPECIFIC USE, ONLY
GEOTEXTILES ON THE CONNECTICUT
DEPARTMENT OF TRANSPORTATION
APPROVED LIST ARE TO BE USED. 3. AFTER FOLDING FABRIC EDGE, BACKFILL TRENCH WITH ORIGINAL SOIL AND BUTTRESS THE SPLAY WITH MULCH OR

> SILT FENCE NOT TO SCALE



CTDOT TYPE 18 RIGHT - CONCRETE SIDEWALK RAMP

(PERPENDICULAR RAMP WITH NON-WALKING SURFACE)

NOT TO SCALE

ELEVATION



TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT **ENGINEERING DIVISION** 494 MAIN STREET - P.O. BOX 191 MANCHESTER, CT 06045-0191

LEGEN	1D	
= WETLANDS BOUNDARY	ά	= LIGHT POLE
= RETAINING WALL	茶	= CONIFEROUS TR
GUIDE RAIL	8	= DECIDUOUS TRE
STONE WALL	S	= SANITARY MANI
= STOCKADE FENCE	0	= DRAINAGE MAN
		= CATCH BASIN
	Δ	= CULVERT END
= PROPERTY LINE	***	= HYDRANT
= RAILROAD TRACKS		= CURB STOP
— SF —— = SILT FENCE	w _X	= WATER VALVE
	0	- WATER VALVE

O = BLOW OFF o = SIGN o o = DOUBLE POST SIGN M = MAIL BOX O = TRAFFIC SPAN POLE

⊕ CATV TUBE

PROJECT NUMBER 2020103

E = ELECTRIC BOX

= WETLAND FLAG

FILENAME 2020103-DETAILS.DWG

NO.	DATE	FILE
_	05/31/23	BID PLANS

DRAWN BY: JD CHECKED BY: JD RELEASED BY: JL

DRAWING SCALE HORIZONTAL: 1" = 20' VERTICAL: ---OR AS NOTED 20 10 0 GRAPHIC SCALE

DATUM HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION

EAST CENTER STREET MANCHESTER, CT

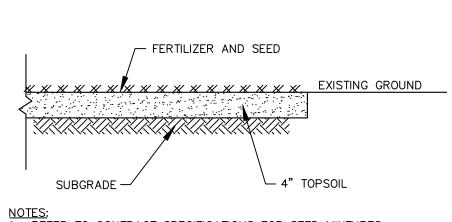
PROJECT TITLE

PEDESTRIAN IMPROVEMENTS

SHEET TITLE

DETAILS

SHEET NUMBER



NOTES:

1. REFER TO CONTRACT SPECIFICATIONS FOR SEED MIXTURES.

2. PERMANENT GRASS SEED MIXES SHALL BE APPLIED FROM APRIL 1 THOUGH JUNE 15 OR AUGUST 15 THROUGH OCTOBER 1.

3. PERENNIAL RYEGRASS SHALL BE APPLIED AS TEMPORARY GRASS SEED FROM MARCH 15 THROUGH JULY 1 OR AUGUST 1 THROUGH

RESTORATION OF LAWN AREAS NOT TO SCALE